

WHAT IS CLAIMED IS:

1. A trocar sheath tube comprising:

an insert portion introduced into the inside of a body, the insert portion having a tube passage, the tube passage being capable of passing a medical instrument internally, the insert portion guiding the medical instrument into the inside of a body through this tube passage;

a holding portion provided at the proximal end side of the insert portion in order to hold the proximal end side of the medical instrument inserted through the insert portion, the holding portion having an opening communicating with the tube passage of the insert portion;

a sealing member removably mounted to the opening of the holding portion, the sealing member having a first sealing portion coming into intimate contact with the medical instrument, the sealing member sealing a space between the medical instrument and the holding portion by this first sealing portion; and

a fixing member removably mounted to the sealing member, the fixing member adopted to fix the sealing member to the holding portion.

2. A trocar sheath tube according to claim 1, wherein an opening/closing valve for openably closing the opening of the holding portion is provided in the holding portion.

3. A trocar sheath tube according to claim 1, wherein the fixing member is turnably mounted to the holding portion.

5 4. A trocar sheath tube according to claim 1, wherein the sealing member has a second sealing portion which abuts with the opening/closing valve in sealed state and closes the opening of the holding portion in cooperation with the opening/closing valve.

10 5. A trocar sheath tube according to claim 4, wherein the opening/closing valve is a flap valve movable between a first position where the valve abuts with a second sealing portion and a second position where the valve is spaced from the second sealing portion.

15 6. A trocar sheath tube according to claim 5, wherein the opening/closing valve is always biased toward the first position.

20 7. A trocar sheath tube according to claim 1, wherein the sealing member has a third sealing portion positioned to be spaced from the first sealing portion, the third sealing portion sealing a space between the medical instrument and the holding portion in intimate contact with the medical instrument.

25 8. A trocar sheath tube according to claim 7, wherein the first and third sealing portions have holes through which the medical instruments can be inserted, respectively, and the hole diameter of the first

sealing portion and that of the third sealing portion are differ from each other.

5 9. A trocar sheath tube according to claim 1, wherein the sealing member is a duck bill valve or slit valve consisting of an elastic material.

10. A trocar sheath tube according to claim 1, wherein a shoulder portion meshed with the fixing member is provided at the sealing member.

10 11. A trocar sheath tube according to claim 1, wherein the sealing member is deformed by pushing force using the fixing member.

15 12. A trocar sheath tube according to claim 7, wherein the sealing member has an arm portion for causing the first and third sealing portions to be coupled with each other.

13. A trocar sheath tube according to claim 12, wherein the arm portion is oriented in the longitudinal axial direction of the insert portion while the sealing member is mounted to the holding portion.

20 14. A trocar sheath tube according to claim 12, wherein the arm portion biases the third sealing portion toward a first position where the third sealing portion is arranged coaxially with the first sealing portion or toward a second portion where the third  
25 sealing portion is distant from the first sealing portion by 180 degrees and over.

15. A trocar sheath tube according to claim 1,

wherein the fixing member has a hole for restricting the inclination of the medical instrument sealed by the first sealing portion of the sealing member.

5 16. A trocar sheath tube according to claim 1, wherein the sealing member is sandwiched between the fixing member and the holding portion.

5987 17. A trocar sheath tube according to claim 2, wherein the sealing member serves as the opening/closing valve.

10 18. A trocar sheath tube according to claim 2, wherein the first sealing portion of the sealing member has a hold through which the medical instrument can be inserted, and the diameter of the hold is changed by a hole diameter changeable member to be abutted with the  
15 sealing member.

19. A trocar sheath tube comprising:

a housing having a space therein;

a port for introducing a surgical instrument into the space of the housing;

20 an elongated insert portion having a tube passage communicating with the space of the housing;

a sealing means for closing the port in a sealed state;

25 a fixing member for fixing the sealing means via a hinge,

wherein the sealing means can be removably mounted to the housing and the fixing member is turnably

mounted to the housing.

20. A trocar sheath tube according to claim 19,  
wherein the sealing means is formed of an elastic  
material and has a flexible lip portion which abuts in  
sealed state with a turnable flap valve in the housing  
to ensure air tightness.

21. A trocar sheath tube according to claim 19,  
wherein the sealing means is a duck bill valve  
formed of an elastic material.

10            22. A trocar sheath tube according to claim 19,  
              wherein the sealing means is a slit valve formed  
              of an elastic material.

23. A trocar sheath tube according to claim 19,  
wherein a shoulder portion meshed with the fixing  
member is provided in the vicinity of the periphery of  
the sealing means.